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(54) **PORTABLE DIRECTIONAL TREE FELLER**

(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 938 days.

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(65) **Prior Publication Data**

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(57) **ABSTRACT**

Related U.S. Application Data

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A portable directional tree feller is an apparatus used to brace a tree that is being felled and to control it is lowered to the ground. The apparatus comprises a trunk cradle, a notch hinge, a stump cradle, an actuator, a counterfort, and a ground support. The trunk cradle braces the cut portion of a felled tree, and the stump cradle braces the rooted portion of the felled tree. The trunk cradle is pivotally connected to the stump cradle by the notch hinge. The ground support is used to brace the apparatus against the ground and is perpendicularly connected the stump cradle. The counterfort is used to buttress the right angle created between the ground support and the stump cradle. The actuator is pivotally connected to both the ground support and the trunk brace and provides the mechanical power to raise and lower the cut portion with trunk brace.

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(52) **U.S. Cl.**
CPC **A01G 23/099** (2013.01)

(58) **Field of Classification Search**
CPC B25B 1/205; B25B 13/14; B23K 37/0533
See application file for complete search history.

19 Claims, 12 Drawing Sheets

